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**A Quantitative Comparison of Graph-based Models for.. - Zegura, Calvert, Donahoo (1997) (Correct) (70 citations)**

A forwarding path may be a direct (physical) **link**, or it may be a shared medium we do not  
Graphs are commonly used to model the topological **structure** of internetworks, to study problems ranging  
possible to obtain information about high-level **connectivity** covering a significant fraction of the  
[burro.baylor.edu/~donahoo/papers/TON97.ps.gz](http://burro.baylor.edu/~donahoo/papers/TON97.ps.gz)

**One or more of the query terms is very common - only partial results have been returned. Try [Google \(RI\)](#).****Network-aware Mobile Programs - Ranganathan Anurag (1997) (Correct) (54 citations)**

differences between in the quality of different **links**, which are primarily due to the hosts'  
monitoring and adaptive placement of shared data-**structures** can significantly improve performance of  
**links**, which are primarily due to the hosts' **connectivity** to the Internet and (3) temporal variations,  
[www.cosc.canterbury.ac.nz/~hpark/academic/research/papers/maryland/rangan.ps](http://www.cosc.canterbury.ac.nz/~hpark/academic/research/papers/maryland/rangan.ps)

**Modeling Internet Topology - Calvert (1997) (Correct) (53 citations)**

Award MIP-9502669. rect connections (transmission **links** or networks) between switches or routers. Thus,  
issues. Good models of the topological **structure** of a network are essential for developing and  
Each generated network must be checked for **connectivity**, then discarded or modified if the check  
[www.cc.gatech.edu/projects/gttn/papers/model.ps.gz](http://www.cc.gatech.edu/projects/gttn/papers/model.ps.gz)

**An Architecture for Next Generation Middleware - Blair, Coulson, Robin.. (1998) (Correct) (35 citations)**

passing to operate more optimally over a wireless **link**, introducing an additional level of distribution  
a perobject meta-space, the use of meta-models to **structure** meta-space, and a consistent use of object  
need to detect and adapt to drastic changes in **connectivity** this may involve changes at a number of  
[ftp.comp.lancs.ac.uk/pub/mpg/MPG-98-27.ps.Z](http://ftp.comp.lancs.ac.uk/pub/mpg/MPG-98-27.ps.Z)

**Forecasting Network Performance to Support Dynamic Scheduling.. - Wolski (1997) (Correct) (45 citations)**

that its resource consumption CPU sensor network **link** sensor machine machine machine memory sensor  
In the next section (Section 2) we describe the **structure** and implementation of a prototype NWS we have  
or outside the monitored network, requiring **connectivity** to at least one of the NWS servers. Currently,  
[www.cs.ucsd.edu/users/rich/papers/nws-hpdc.ps.gz](http://www.cs.ucsd.edu/users/rich/papers/nws-hpdc.ps.gz)

**Abstractions for Mobile Computation - Cardelli (1998) (Correct) (31 citations)**

a couple of hardware generations) and of network **links** of about the same bandwidth and latency. This  
. B) Physical locations. On a planet-size **structure**, the speed of light becomes tangible. For  
becomes indistinguishable from intermittent **connectivity**. Furthermore, delays (and, implicitly,  
[ftp.research.microsoft.com/pub/tr/tr-98-34.ps](http://ftp.research.microsoft.com/pub/tr/tr-98-34.ps)

**Extracting Refined Rules from Knowledge-Based Neural Networks - Towell, Shavlik (1992) (Correct) (87 citations)**

neural learning. Our approach is to form the three-**link** chain illustrated by Figure 1 in which symbolic  
A. Figure 2b represents the hierarchical **structure** of these rules: solid and dotted lines  
thereby guiding the choice of the number and **connectivity** of hidden units in the KNN. 3 Rule Extraction  
[ftp.cs.wisc.edu/machine-learning/shavlik-group/towell.mlj93.ps](http://ftp.cs.wisc.edu/machine-learning/shavlik-group/towell.mlj93.ps)

**An Analysis of Internet Inter-Domain Topology and Route.. - Govindan, Reddy (1997) (Correct) (31 citations)**

and the inter-domain peering relationships. A **link** in this graph signifies route exchange-and  
inter-domain topology was approximately tree-**structured**. A single national backbone provided  
Internet domains classified by degree. However, **connectivity** between domains is significantly



ftp.isi.edu/pub/cengiz/analysis.ps

Knowledge Discovery from Users Web-Page Navigation - Shahabi, Zarkesh, Adibi, Shah (1997) (Correct) (29 citations)

of a profiler which captures client's selected links and pages order, accurate page viewing time and current state of the HTTP protocol and its packet structure (i.e.requires no modification and/or WWW-hypertext links. We call this graph a site connectivity graph. Any page of a WWW-site could be usc.edu/pub/csinfo/tech-reports/papers/97-645.ps.Z

Reliable Communication for Highly Mobile Agents - Murphy, Picco (1999) (Correct) (13 citations)

presence of faults in the underlying communication link or in the communicating nodes. It is the sheer of the connectivity graph. Notably, the very structure of our algorithm makes it amenable not only to with mobility in mind, or enforce continuous connectivity with the message source, which in many cases swarm.cs.wustl.edu/~picco/papers/ma99.TR.ps.gz

A Probabilistic Roadmap Approach for Systems with Closed.. - LaValle, Yakey, Kavraki (1999) (Correct) (13 citations)

planning for recon gurable robots where the robot links may be rearranged in a loop to ease manipulation of path planning for an articulated robot or structure that has many degrees of freedom, closed are in systems with closed loops in which the connectivity of the loops does not change but the con janowiec.cs.iastate.edu/papers/icra99b.ps.gz

Application Design for Wireless Computing - Watson (1994) (Correct) (43 citations)

is likely to remain. The problems of wireless links, such as high or variable latency, low bandwidth, organization provide implicit information about structure and reference patterns to increase the benefits based on efficiency and constrained by network connectivity and data or function location. In some cases, www.ens.uabc.mx/cursos/computacion/arc/cs248/readings/mcsa94.ps

Compositional Programming Abstractions for Mobile Computing - McCann, Roman (1998) (Correct) (17 citations)

the presence of interference or noise on a wireless link. Also, any given collection of pairwise [2]However, because of the essentially static structure of computations that can be expressed, standard the increasing demand for ubiquitous, mobile connectivity demonstrate the importance of providing www.cs.wustl.edu/cs/techreports/1997/wucs-97-45.ps.Z

On-Demand Multicast in Mobile Wireless Networks - Ching-Chuan Chiang (1998) (Correct) (15 citations)

"infrastructure" like in Distance Vector or Link State, for example)On Demand Multicast is introduced in [3] using a conventional routing structure (Distance Vector) This paper extends that channel and the continuously changing network connectivity. First, the use of trees in a rapidly www.cs.ucla.edu/NRL/wireless/PAPER/icnp98-chiang.ps.gz

Parsing English with a Link Grammar - Sleator, Temperley (1991) (Correct) (50 citations)

Parsing English with a Link Grammar Daniel D. K. Sleator \*Davy Temperley y spade.pc.cs.cmu.edu/usr/sleator/public/tech-report.ps.Z

Clustering at the Phase Transition - Parkes (1997) (Correct) (17 citations)

their emergence at the phase transition seems to be linked to the peak in search cost. Random 3SAT Our main result is that there is indeed a finer structure observable in the UPI-distributions. As we 1960) that thresholds in properties such as connectivity emerge in large random graphs. Recently, phase ftp.cirl.uoregon.edu/pub/users/parkes/R3SAT/AAAI-97-Parkes.ps.gz

Hierarchically-organized, multihop mobile wireless.. - Ramanathan, Steenstrup (1998) (Correct) (11 citations)

MA 02138 Abstract. MMWN is a modular system of link- and network-layer algorithms that enables a www.net-tech.bbn.com/dawn/monet.ps

The Architecture Of The Festival Speech Synthesis System - Taylor, Black, Caley (1998) (Correct) (11 citations)

of items. In this case, a word contains a set of links to the phones that are related to it, and the such as words and phones are stored as feature structures in a general object called an linguistic item. to the items in the new stream to ensure full connectivity. As this isn't possible in practice, the

[www.cstr.ed.ac.uk/~pauli/papers/esca\\_synth\\_98.ps](http://www.cstr.ed.ac.uk/~pauli/papers/esca_synth_98.ps)

Combining Statistical and Relational Methods for Learning in .. - Slattery, Craven (1998) (Correct)  
(10 citations)

consists of the following background relations: link to(Hyperlink, Page, Page) This relation  
a particular class of information in the internal **structure** of pages. Our experiments demonstrate that this  
along with background relations describing the **connectivity** of pages for hypertext learning tasks. In  
[www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-11/www/wwwkb/ilp98.ps.gz](http://www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-11/www/wwwkb/ilp98.ps.gz)

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**1 Development of integral passive components for multilayer organic MCMs at millimeter wave frequencies**

*Pham, A.-V.H.; Krishnamurthy, V.; Bates, D.; Marcinkewicz, W.; Schmanski, B.; Saia, R.; Sprinceanu, L.*

Advanced Packaging, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on] , Volume: 25 Issue: 1 , Feb. 2002  
Page(s): 98 -101

[\[Abstract\]](#) [\[PDF Full-Text \(564 KB\)\]](#) **JNL**

**2 Substrate parasitic extraction for RF integrated circuits**

*Cathelin, A.; Leclercq, Y.; Saia, D.; Belot, D.; Clement, F.R.J.*

Design, Automation and Test in Europe Conference and Exhibition, 2002. Proceedings , 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(183 KB\)\]](#) **CNF**

**3 A DCS1800/GSM900 RF to digital fully integrated receiver in SiGe 0.35  $\mu$ m BiCMOS**

*Belot, D.; Bonhoure, B.; Saia, D.; Bertholet, N.*

Bipolar/BiCMOS Circuits and Technology Meeting, Proceedings of the 2001 , 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **CNF**

**4 Development of microwave/millimeter wave integral passives for multi-layer organic MCMs**

*Manohar, S.; Jin, Z.; Pham, A.; Krishnamurthy, V.; Bates, D.; Marcinkewicz, W.; Schmanski, B.; Saia, R.; Sprinceanu, L.*  
Microwave Symposium Digest. 2000 IEEE MTT-S International ,  
Volume: 3 , 2000  
Page(s): 1879 -1882 vol.3

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**5 Reliability evaluation of chip-on-flex CSP devices**

*Fillion, R.A.; Burdick, B.; Piacente, P.; Douglas, L.; Shaddock, D.; Saia, R.*  
Multichip Modules and High Density Packaging, 1998. Proceedings.  
1998 International Conference on , 1998  
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**6 Thin film passive elements on polyimide film**

*Saia, R.J.; Cole, H.S.; Durocher, K.M.; Nielsen, M.C.*  
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**7 Adapting multichip module foundries for MEMS packaging**

*Butler, J.T.; Bright, V.M.; Chu, P.B.; Saia, R.J.*  
Multichip Modules and High Density Packaging, 1998. Proceedings.  
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**8 Plastic microwave multi-chip modules for wireless communication applications**

*Krishnamurthy, V.; Balch, E.; Durocher, K.; Rose, J.; Saia, R.; Lester, D.; Sherwood, D.*  
Radio Frequency Integrated Circuits (RFIC) Symposium, 1998 IEEE ,  
1998  
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**9 Towards an ultra-high density interconnect (UHDI)**

**technology**

*Krishnamurthy, V.; Rose, J.; Saia, R.; Durocher, K.*

Digital Avionics Systems Conference, 1997. 16th DASC., AIAA/IEEE ,  
Volume: 1 , 1997

Page(s): 2.3 -8-12 vol.1

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**10 Approximate option pricing**

*Chalasani, P.; Jha, S.; Saia, I.*

Foundations of Computer Science, 1996. Proceedings., 37th Annual  
Symposium on , 1996

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**11 3-D Stacking Using the GE High Density Multichip Module Technology**

*Saia, R.J.; Wojnarowski, R.J.; Fillion, R.A.; Forman, G.A.; Gorowitz, B.*

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Conference on , April 13-15, 1994

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**12 3-D stacking using the GE high density multichip module technology**

*Fillion, R.A.; Saia, R.; Wojnarowski, R.J.; Forman, G.A.; Gorowitz, B.*

MCM and VLSI Packaging Techniques and Manufacturing  
Technologies, 1994. Workshop on , 1994

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**13 Silicon carbide UV photodiodes**

*Brown, D.M.; Downey, E.T.; Ghezzi, M.; Kretchmer, J.W.; Saia, R.J.;  
Liu, Y.S.; Edmond, J.A.; Gati, G.; Pimbley, J.M.; Schneider, W.E.*

Electron Devices, IEEE Transactions on , Volume: 40 Issue: 2 , Feb.  
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**14 Three dimensional hybrid wafer scale integration using the GE high density interconnect technology**

*Wojnarowski, R.J.; Fillion, R.A.; Gorowitz, B.; Saia, R.*

Wafer Scale Integration, 1993. Proceedings., Fifth Annual IEEE International Conference on , 1993

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**15 Summary of 'two contrasting approaches to product data modelling: ISS and STEP'**

*Bloor, M.S.; McKay, A.; Saia, A.; Shaw, N.K.; Wickens, L.P.*

Architectures for Computer Integrated Manufacturing, IEE Colloquium on , 1991

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**16 Selectively silicided vertical power DMOSFETs for high-frequency power conversion**

*Shenai, K.; Piacente, P.A.; Saia, R.; Korman, C.S.; Baliga, B.J.*

Electronics Letters , Volume: 25 Issue: 12 , 8 June 1989

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**17 Blanket LVD tungsten silicide technology for smart power applications**

*Shenai, K.; Piacente, P.A.; Saia, R.; Baliga, B.J.*

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**18 Boundary evaluation using inner and outer sets: the ISOS method**

*Beacon, G.R.; Dodsworth, J.R.; Howe, S.E.; Oliver, R.G.; Saia, A.*

IEEE Computer Graphics and Applications , Volume: 9 Issue: 2 , March 1989

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**19 Ultralow resistance, selectively silicided VDMOS FETs for**

**high-frequency power switching applications fabricated using sidewall oxide spacer technology**

*Shenai, K.; Piacente, P.A.; Saia, R.; Korman, C.S.; Tantraporn, W.; Baliga, B.J.*

Electron Devices, IEEE Transactions on , Volume: 35 Issue: 12 , Dec. 1988

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**20 An investigation of a molybdenum gate for submicrometer CMOS**

*Kwasnick, R.F.; Kaminsky, E.B.; Frank, P.A.; Franz, G.A.; Saia, R.J.; Polasko, K.J.; Gorczya, T.B.*

Electron Devices, IEEE Transactions on , Volume: 35 Issue: 9 , Sept. 1988

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**21 A novel high-frequency power FET structure fabricated using LPCVD WSi/sub 2/ gate and LCPVD W source contact technology**

*Shenai, K.; Piacente, P.A.; Saia, R.; Hennessy, W.; Korman, C.S.; Baliga, B.J.*

Electron Devices Meeting, 1988. Technical Digest., International , 1988

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**1** SALSA: the stochastic approach for link-structure analysis    99%



R. Lempel , S. Moran

ACM Transactions on Information Systems (TOIS) April 2001

Volume 19 Issue 2

Today, when searching for information on the WWW, one usually performs a query through a term-based search engine. These engines return, as the query's result, a list of Web pages whose contents matches the query. For broad-topic queries, such searches often result in a huge set of retrieved documents, many of which are irrelevant to the user. However, much information is contained in the link-structure of the WWW. Information such as which pages are linked to others can be used to augment search ...

---

**2** Authoritative sources in a hyperlinked environment    98%



Jon M. Kleinberg

Journal of the ACM (JACM) September 1999

Volume 46 Issue 5

The network structure of a hyperlinked environment can be a rich source of information about the content of the environment, provided we have effective means for understanding it. We develop a set of algorithmic tools for extracting information from the link structures of such environments, and report on experiments that demonstrate their effectiveness in a variety of



context on the World Wide Web. The central issue we address within our framework is the distillation of broad search topics,

...

**3** Finding authorities and hubs from link structures on the World Wide Web 98%



Allan Borodin , Gareth O. Roberts , Jeffrey S. Rosenthal ,  
Panayiotis Tsaparas  
Proceedings of the tenth international conference on World Wide  
Web April 2001

**4** Constructing good quality web page communities 96%



Jingyu Hou , Yanchun Zhang  
Australian Computer Science Communications , Proceedings of the  
thirteenth Australasian conference on Database technologies -  
Volume 5 January 2002  
Volume 24 Issue 2

World Wide Web is a rich source of information and continues to expand in size and complexity. To capture the features of the Web at a higher level to realise the information classification and efficient retrieval on the Web is becoming a challenge task. One natural way is to exploit the linkage information among the Web pages. Previous work such as HITS in this area is based on a set of retrieved pages to get a Web community that is a bunch of pages related to the query topics. Since the set of ...

**5** PicASHOW: pictorial authority search by hyperlinks on the Web 95%



Ronny Lempel , Aya Soffer  
Proceedings of the tenth international conference on World Wide  
Web April 2001


**6** PicASHOW: pictorial authority search by hyperlinks on the web 94%



ACM Transactions on Information Systems (TOIS) January 2002  
Volume 20 Issue 1

We describe PicASHOW, a fully automated WWW image retrieval system that is based on several link-structure analyzing algorithms. Our basic premise is that a page  $p$  displays (or links to) an image when the author of  $p$  considers the image to be of value to the viewers of the page. We thus extend some well known link-based WWW *page retrieval* schemes to the context of image retrieval. PicASHOW's analysis of the link structure enables it to retrieve relevant images even when those ...


**7** Approximation algorithms for the metric labeling problem via a 93%


-  new linear programming formulation  
Chandra Chekuri , Sanjeev Khanna , Joseph Naor , Leonid Zosin  
Proceedings of the twelfth annual ACM-SIAM symposium on  
Discrete algorithms January 2001

We consider approximation algorithms for the metric labeling problem. This problem was introduced in a recent paper by Kleinberg and Tardos [20], and captures many classification problems that arise in computer vision and related fields. They gave an  $O(\log k \log \log k)$  approximation for the general case where  $k$  is the number of labels and a 2-approximation for the uniform metric case. More recently, Gupta and Tardos [15] gave a 4-approximation for the truncated ...

- 8** Searching the Web 92%  
 ACM Transactions on Internet Technology (TOIT) August 2001  
Volume 1 Issue 1

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

- 9** Improved algorithms for topic distillation in a hyperlinked environment 92%  
 Krishna Bharat , Monika R. Henzinger  
Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval August 1998

- 10** Hubs, authorities, and communities 90%  
 Jon M. Kleinberg  
ACM Computing Surveys (CSUR) December 1999

- 11** Stable algorithms for link analysis 89%  
 Andrew Y. Ng , Alice X. Zheng , Michael I. Jordan

Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval September 2001

The Kleinberg HITS and the Google PageRank algorithms are eigenvector methods for identifying ``authoritative" or ``influential" articles, given hyperlink or citation information. That such algorithms should give reliable or consistent answers is surely a desideratum, and in~\cite{ijcaiPaper}, we analyzed when they can be expected to give stable rankings under small perturbations to the linkage patterns. In this paper, we extend the analysis and show how it gives insight into ways of de ...

**12** Constructing, organizing, and visualizing collections of topically 89%  
related Web resources

Loren Terveen , Will Hill , Brian Amento  
ACM Transactions on Computer-Human Interaction (TOCHI) March 1999

Volume 6 Issue 1

For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site

**13** On the design of a learning crawler for topical resource 88%  
discovery

Charu C. Aggarwal , Fatima Al-Garawi , Philip S. Yu  
ACM Transactions on Information Systems (TOIS) July 2001  
Volume 19 Issue 3

In recent years, the World Wide Web has shown enormous growth in size. Vast repositories of information are available on practically every possible topic. In such cases, it is valuable to perform topical resource discovery effectively. Consequently, several new ideas have been proposed in recent years; among them a key technique is focused crawling which is able to crawl particular topical portions of the World Wide Web quickly, without having to explore all web pages. In this paper, we propose ...

**14** Session 7: Fault-tolerant routing in peer-to-peer systems 88%

James Aspnes , Zoë Diamadi , Gauri Shah  
Proceedings of the twenty-first annual symposium on Principles of

## distributed computing July 2002

We consider the problem of designing an overlay network and routing mechanism that permits finding resources efficiently in a peer-to-peer system. We argue that many existing approaches to this problem can be modeled as the construction of a random graph embedded in a metric space whose points represent resource identifiers, where the probability of a connection between two nodes depends only on the distance between them in the metric space. We study the performance of a peer-to-peer system wher ...

### **15** Simple on-line algorithms for the maximum disjoint paths 88%

#### problem

Petr Kolman , Christian Scheideler

Proceedings of the thirteenth annual ACM symposium on Parallel algorithms and architectures July 2001

In this paper we study the problem of finding disjoint paths in graphs. Whereas for specific graphs many (almost) matching upper and lower bounds are known for the competitiveness of on-line path selection algorithms, much less is known about how well on-line algorithms can perform in the general setting. In several papers the expansion has been used to measure the performance of off-line and on-line algorithms in this field. We study a class of simple deterministic on-line algorithms and sho ...

### **16** Integrating content search with structure analysis for 88%

#### hypermedia retrieval and management

Wen-Syan Li , K. Selçuk Candan

ACM Computing Surveys (CSUR) December 1999

### **17** Link-based and content-based evidential information in a belief 88%

#### network model

Ilmério Silva , Berthier Ribeiro-Neto , Pável Calado , Edleno Moura , Nívio Ziviani

Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000

This work presents an information retrieval model developed to deal with hyperlinked environments.

The model is based on belief networks and provides a framework for combining information extracted from the content of the documents with information derived from cross-references among the documents. The information extracted from the content of the documents is based on statistics regarding the keywords in the collection and is one of the basis for traditional information retrieval (IR) rankin ...


**18** Applications of linear algebra in information retrieval and 88%

 hypertext analysis

Jon Kleinberg , Andrew Tomkins

Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART  
symposium on Principles of database systems May 1999

**19** Modifications of Kleinberg's HITS algorithm using matrix 88%

 exponentiation and web log records

Joel C. Miller , Gregory Rae , Fred Schaefer , Lesley A. Ward ,  
Thomas LoFaro , Ayman Farahat

Proceedings of the 24th annual international ACM SIGIR conference  
on Research and development in information retrieval September  
2001

**20** Information retrieval on the web 87%

 Mei Kobayashi , Koichi Takeda

ACM Computing Surveys (CSUR) June 2000  
Volume 32 Issue 2

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

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## HyPursuit: a hierarchical network search engine that exploits content-link hypertext clustering

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#### ↑ INDEX TERMS

##### Primary Classification:

H. Information Systems

↳ H.3 INFORMATION STORAGE AND RETRIEVAL

↳ H.3.4 Systems and Software

↳ Nouns: World Wide Web (WWW)

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↳ H.3.3 Information Search and Retrieval

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